

CLAIMS:

1. A cleaning system for cleaning cooling and/or heating units of air conditioners in vehicles, wherein the cleaning system comprises a cleaning assembly (220) which comprises at least one distribution tube (225) provided with at least one nozzle for (230), and is arranged to distribute cleaning substance onto the surfaces of the cooling and/or heating units via the distribution tube (225) and nozzle(230),
5 **characterised in that** the cleaning system is mounted in the vehicle and in that the cleaning assembly is connected to means for heating (325) the cleaning substance, wherein the heating menas (325) utilizes heat generated from the engine of the vehicle to heat the cleaning substance.
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2. The cleaning system according to claim 1, **wherein** the means for heating (325) the cleaning substance comprises a heat exchanger which is arranged to be connected to the cooling system of the vehicles engine whereby the coolant of the cooling system may heat the cleaning substance.
- 15 3. The cleaning system according to claim 1 or 2, **wherein** the cleaning assembly and/or the heating means are connected to means for increasing the pressure (340) of the cleaning substance.
4. The cleaning system according to claim 1 or 2, **wherein** the cleaning assembly and/or the heating means is connected to a steam generating apparatus.
- 20 5. The cleaning system according to claim 2, **further comprising** a second means for heating (355) arranged to heat the cleaning substance if the heat exchanger does not suffice to heat the cleaning substance to a predetermined temperature.
6. The cleaning system according to any of claims 1 to 5, **further comprising** a storage tank (305) for storing the cleaning substance, and a drainage (342) positioned in a
25 housing of the air conditioning unit and arranged to, from the cooling and/or heating unit, collect used cleaning substance, wherein the drainage is connected to the storage tank (305) so that used cleaning substance can be stored in the storage tank (305) and reused or regenerated.
7. A cleaning system for cleaning cooling and/or heating units of air conditioners in vehicles, wherein the cleaning system comprises a cleaning assembly (220) which comprises at least one distribution tube (225) provided with at least one nozzle for
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(230), and is arranged to distribute cleaning substance onto the surfaces of the cooling and/or heating units via the distribution tube (225) and nozzle(230), **characterised in that** the cleaning system is mounted in the vehicle and in that the cleaning assembly is connectable to an replaceable container (505) with pressurized cleaning substance.

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8. A method of cleaning cooling and/or heating units of air conditioners in vehicles, wherein the cleaning system comprises a cleaning assembly (220) arranged to distribute cleaning substance to the surfaces of the cooling and/or heating units, which method comprises the steps of:

10 -*determining* (a) that the heating/cooling system needs to be clean;

-*heating* (e) the cleaning substance by utilizing heat generated by the engine of the vehicle;

-*flowing* (h) a cleaning substance through a feeding tubes to at least one distribution tube and further via at least one nozzle to be distributed onto the heating unit and/or cooling unit.

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9. The method according to claim 8, **wherein** the step of heating (e) comprises that the cleaning substance flows through a heat exchanger wherein said heat exchanger is connected to the cooling system of the engine and whereby transport heat from the coolant of the engines cooling system to the cleaning substance.

20 10. The method according to claim 8 or 9, **further comprising** a step of *sealing* (f) the part or parts of the air conditioning unit that should be cleaned;

11. The method according to any of claims 8 to 10, **further comprising** the step of *directing* (i) the used cleaning substance to a storage tank for regeneration.

25 12. The method according to claim 8, wherein the method comprises the further step of *venting* (l) the heating/cooling unit after the cleaning process by providing a flow of air from the heating/cooling unit to the outside of the vehicle.